## Index of Claims

## Application/Control No.

Applicant(s)/Patent under Reexamination

10/591,443 Examiner

OYA ET AL.

/Yonel Beaulieu/

Art Unit

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

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|       |          | L        |               |          |          |          | J        |          | L        |          |   |          |          |        |          |           |          | L        |          |         |         |    |               | l          |          |               |          | _             |               |               |               |           |   |
|-------|----------|----------|---------------|----------|----------|----------|----------|----------|----------|----------|---|----------|----------|--------|----------|-----------|----------|----------|----------|---------|---------|----|---------------|------------|----------|---------------|----------|---------------|---------------|---------------|---------------|-----------|---|
| - 01  |          | _        |               |          | -        | D - 1    | _        |          |          | _        | 1 |          |          |        |          |           | _        |          | _        |         |         | ٦. |               |            | _        |               |          |               | -1-           |               |               |           | _ |
| Cla   | im       | ⊢        |               | _        | _        | Date     | e_       |          | _        | _        | ł | Cla      | ım       | _      |          | _         | ᆛ        | ate      | _        | _       | _       | 4  | Ci            | aim        | _        | _             | _        | ᆛ             | ate           | _             | _             | _         | _ |
| Final | Original | 6/11/09  |               |          |          |          |          |          |          |          |   | Final    | Original |        |          |           |          |          |          |         |         |    | Final         | Original   |          |               |          |               |               |               |               |           |   |
|       | 1        | 1        |               | _        | $\vdash$ | $\vdash$ | -        |          | Н        | -        | 1 |          | 51       | _      | Н        | $\dashv$  | 7        | $\dashv$ | $\dashv$ | $^{+}$  | +       | 1  | $\vdash$      | 101        | $\dashv$ | $\forall$     | 7        | $\pm$         | $\dashv$      | $\dashv$      | $\dashv$      | $\pm$     | - |
| _     | 2        | Ì        |               | _        | $\vdash$ | $\vdash$ | -        | $\vdash$ | $\vdash$ | _        | 1 | -        | 52       | _      |          | $\vdash$  | 7        | 7        | $\dashv$ | $^{+}$  | +       | 1  | -             | 102        | $\dashv$ | $\forall$     | +        | $\rightarrow$ | -             | $\dashv$      | 7             | +         | _ |
|       | 3        | V        | $\overline{}$ | _        | $\vdash$ | $\vdash$ | -        | $\vdash$ | Н        | -        | 1 |          | 53       | _      | Н        | $\neg$    | 7        | ┪        | $\dashv$ | _       | +       | 1  | $\vdash$      | 103        | _        | $\dashv$      | ┪        | _             | 7             | $\neg$        | $\neg$        | $\neg$    | _ |
|       | 4        | $\vdash$ | П             |          | -        | $\vdash$ |          |          | П        |          | 1 |          | 54       | $\neg$ | П        | П         | $\neg$   | $\neg$   | $\neg$   | $\top$  | $\top$  | 1  | $\overline{}$ | 104        | $\neg$   | $\neg$        | ┪        | $\neg$        | $\neg$        | $\neg$        | $\neg$        | $\neg$    | _ |
|       | 5        | Т        | П             |          | П        | Т        | П        | Т        | П        | Т        | 1 |          | 55       | _      | П        | П         | ╗        | T        | ┪        | ╅       | $\top$  | 1  | $\overline{}$ | 105        | コ        | $\neg$        | ┪        | $\neg$        | ┪             | $\neg$        | ┪             | $\neg$    | _ |
|       | 6        | Т        |               | П        | г        | Т        | Т        |          | П        |          | 1 |          | 56       |        | П        | П         | ┪        | T        | ╅        | T       | $\top$  | 1  |               | 106        | ╛        | П             | ╗        | $\neg$        | $\neg$        |               | $\neg$        | T         | _ |
|       | 7        |          |               |          |          |          |          |          |          |          | ] |          | 57       |        |          |           |          |          |          | I       |         | 1  |               | 107        |          |               | $\Box$   |               |               |               |               | I         | Ξ |
|       | 8        |          |               |          |          |          |          |          |          |          | ] |          | 58       |        |          |           |          |          | $\neg$   |         |         | ]  |               | 108        |          |               | П        | $\neg$        | П             |               |               | Т         | Ξ |
|       | 9        |          |               |          |          |          |          |          |          |          | ] |          | 59       |        |          |           |          |          |          |         |         | ]  |               | 109        |          |               |          |               |               |               |               |           |   |
|       | 10       |          |               |          |          |          |          |          |          |          | ] |          | 60       |        |          |           |          |          |          |         |         |    |               | 110        |          |               |          |               |               |               |               |           |   |
|       | 11       | 1        |               |          |          |          |          | L        |          |          | Į |          | 61       |        |          |           | _        |          | Ţ        | 1       | $\perp$ | 1  |               | 111        | _        |               | I        | 1             |               |               |               |           |   |
|       | 12       | ╙        | ш             | _        | _        | _        | ╙        | ⊢        | ш        | ╙        | Į | $\vdash$ | 62       |        | Ш        | Ш         | _        | _        | _        | 4       | _       | 4  | <u> </u>      | 112        | _        | Ц             | 4        | _             | 4             | _             | _             | 4         |   |
|       | 13       | ⊢        | Н             | _        | -        | ⊢        | ⊢        | ⊢        | $\vdash$ | ⊢        | ł | ш        | 63       | _      | Н        | Ш         | _        | 4        | _        | +       | +       | 4  | ⊢             | 113        | _        | Ц             | 4        | 4             | 4             | -             | _             | 4         |   |
|       | 14       | -        | Н             | _        | -        | -        | -        | $\vdash$ | $\vdash$ | $\vdash$ | ł | $\vdash$ | 64       |        | Н        | Н         | -        | -        | 4        | +       | +       | 4  | $\vdash$      | 114        | _        | $\vdash$      | 4        | 4             | 4             | _             | -             | +         | _ |
|       | 15       | ⊢        | Н             | H        | -        | ⊢        | ⊢        | ⊢        | $\vdash$ | ⊢        | 1 | $\vdash$ | 65       | _      | Н        | Н         | $\dashv$ | $\dashv$ | +        | +       | +       | 4  | $\vdash$      | 115        | $\dashv$ | $\vdash$      | 4        | +             | +             | $\rightarrow$ | $\rightarrow$ | -         | _ |
| _     | 16       | ⊢        | Н             | _        | ⊢        | ⊢        | ⊢        | ⊢        | Н        | _        | 1 |          | 66       | _      | Н        | Н         | -        | $\dashv$ | +        | +       | +       | -  | _             | 116        | $\dashv$ | +             | $\dashv$ | +             | $\rightarrow$ | -             | -             | -         | _ |
| _     | 17<br>18 | ⊢        | Н             | -        | ⊢        | $\vdash$ | ⊢        | $\vdash$ | Н        | $\vdash$ | 1 | $\vdash$ | 67<br>68 | -      | Н        | $\vdash$  | $\dashv$ | $\dashv$ | +        | +       | +       | -  | $\vdash$      | 117<br>118 | $\dashv$ | +             | $\dashv$ | +             | +             | $\rightarrow$ | +             | +         | - |
| _     | 19       | ⊢        | Н             | _        | ⊢        | $\vdash$ | ⊢        | $\vdash$ | Н        | $\vdash$ | 1 | $\vdash$ | 69       | _      | Н        | Н         | $\dashv$ | $\dashv$ | +        | +       | +       | -  | $\vdash$      | 118        | $\dashv$ | +             | +        | +             | +             | $\dashv$      | +             | +         | - |
| _     | 20       | $\vdash$ | Н             | $\vdash$ | $\vdash$ | $\vdash$ | ⊢        | $\vdash$ | Н        | $\vdash$ | 1 | -        | 70       | -      | Н        | Н         | $\dashv$ | $\dashv$ | +        | +       | +       | ┨  | $\vdash$      | 120        | $\dashv$ | +             | $\dashv$ | +             | $\dashv$      | $\dashv$      | +             | +         | - |
| _     | 21       | $\vdash$ |               | $\vdash$ | ⊢        | $\vdash$ | $\vdash$ | $\vdash$ | Н        | $\vdash$ | 1 |          | 71       | -      | Н        | Н         | $\dashv$ | $\dashv$ | +        | +       | +       | ┨  | -             | 121        | $\dashv$ | +             | $\dashv$ | +             | $\dashv$      | $\dashv$      | $\dashv$      | +         | - |
| _     | 22       | $\vdash$ |               | Н        | Н        | $\vdash$ | Н        | $\vdash$ | Н        | -        | 1 | -        | 72       | _      | Н        | Н         | $\dashv$ | $\dashv$ | $\dashv$ | +       | +       | 1  | _             | 122        | $\dashv$ | +             | $\dashv$ | +             | $\dashv$      | $\dashv$      | $\dashv$      | +         | - |
|       | 23       | $\vdash$ |               | Н        | Н        | $\vdash$ | Н        | $\vdash$ | Н        | -        | 1 |          | 73       |        | Н        | Н         | _        | $\dashv$ | +        | +       | +       | 1  | _             | 123        | $\dashv$ | +             | +        | +             | +             | _             | _             | +         | - |
|       | 24       | -        |               |          | -        | 1        | -        | $\vdash$ | Н        | -        | 1 |          | 74       |        | Н        | $\vdash$  | $\dashv$ | _        | $\dashv$ | $^{+}$  | +       | 1  |               | 124        | $\dashv$ | $\dashv$      | _        | $\rightarrow$ | _             | _             | $\dashv$      | +         | - |
|       | 25       | $\vdash$ |               | _        | -        | $\vdash$ | $\vdash$ | $\vdash$ | Н        | _        | 1 |          | 75       |        | Н        | $\forall$ | $\dashv$ | $\dashv$ | $\dashv$ | $^{+}$  | +       | 1  | -             | 125        | $\dashv$ | $\dashv$      | $\dashv$ | $\rightarrow$ | $\dashv$      | _             | _             | $^{+}$    | - |
|       | 26       |          |               |          |          |          |          | t        |          | Н        | 1 |          | 76       |        | П        | П         | _        | ┪        | $\neg$   | _       | $\top$  | 1  |               | 126        | ┪        | $\neg$        | 7        | $\neg$        | _             | _             | $\neg$        | $\dashv$  | _ |
|       | 27       |          |               |          |          |          |          |          | П        |          | 1 |          | 77       |        | П        | П         | $\neg$   | $\neg$   | $\neg$   | $\neg$  |         | 1  |               | 127        | $\neg$   |               | 7        | $\neg$        | $\neg$        | $\neg$        | $\neg$        | $\neg$    | _ |
|       | 28       |          |               |          |          |          |          |          | П        |          | 1 |          | 78       |        |          | П         | _        | $\neg$   | $\neg$   | $\top$  |         | 1  |               | 128        | $\neg$   |               | $\neg$   | $\neg$        | $\neg$        |               |               | $\neg$    | _ |
|       | 29       |          |               |          |          |          |          |          |          |          | 1 |          | 79       |        |          | П         | 7        |          | $\neg$   | $\top$  |         | 1  |               | 129        | $\neg$   |               | $\neg$   | $\neg$        | $\neg$        |               |               | $\neg$    | _ |
|       | 30       | П        |               |          |          |          | П        |          | П        |          | 1 |          | 80       |        |          | П         | T        | T        | T        | T       | $\top$  | 1  |               | 130        | コ        | П             | ┑        | $\neg$        | $\neg$        |               | $\neg$        | Т         | _ |
|       | 31       | П        |               |          |          | П        | П        | П        | П        |          | 1 |          | 81       |        |          | П         | П        | П        | Т        | Т       | Т       | ٦. |               | 131        | П        | П             | П        |               | П             | П             | П             | Т         | Τ |
|       | 32       |          |               |          |          |          |          |          |          |          | ] |          | 82       |        |          |           | $\Box$   |          | $\Box$   |         |         | ]  |               | 132        |          |               |          |               | $\Box$        |               | $\Box$        |           |   |
|       | 33       |          |               |          | $\Box$   |          | $\Box$   |          |          |          | ] |          | 83       | _      |          |           | $\Box$   | $\Box$   | $\Box$   | $\perp$ |         | ]  |               | 133        | $\Box$   |               | $\Box$   |               | $\Box$        | $\Box$        | $\exists$     | $\exists$ | Ξ |
|       | 34       | L        |               | _        | L        | L        | 上        | L        | L        |          | Į |          | 84       |        |          |           | _        | _        | _        | 4       | _       | 1  |               | 134        | _        |               | 4        | 4             | _             |               | _             | _         |   |
|       | 35       | ╙        |               | _        | ╙        | _        | ╙        |          | ш        |          | Į |          | 85       | _      |          | Ц         | _        | 4        | 4        | 4       | +       | 1  | _             | 135        | _        | _             | 4        | 4             | 4             | _             | 4             | _         | _ |
| _     | 36       | ⊢        | ш             | _        | ⊢        | ┡        | ⊢        | _        | ш        | _        | Į | _        | 86       | _      | Щ        | Ц         | 4        | 4        | 4        | _       | +       | 4  | _             | 136        | _        | $\rightarrow$ | 4        | _             | 4             | 4             | 4             | 4         | _ |
|       | 37       | ⊢        |               | _        | ⊢        | ⊢        | ⊢        | -        | Н        | _        | Į |          | 87       | _      | Ш        | $\Box$    | 4        | 4        | -        | +       | +       | 4  | _             | 137        | _        | -             | 4        | -             | 4             | 4             | 4             | _         | _ |
| _     | 38       | ⊢        | _             | _        | -        | ⊢        | ⊢        | ┝        | ⊢        | _        | ł | _        | 88       | _      | Н        | Н         | -        | -        | 4        | +       | +       | 4  | -             | 138        | -        | +             | 4        | 4             | -             | -             | -             | -         | _ |
|       | 39       | ⊢        |               | _        | Н        | $\vdash$ | ⊢        | ⊢        | Н        |          | 1 | $\vdash$ | 89<br>90 | _      | Н        | Н         | -        | -        | +        | +       | +       | 4  | -             | 139        | -        | $\vdash$      | +        | +             | -             | -             | -             | -         | _ |
| _     | 40       | +-       | $\vdash$      | -        | -        | 1-       | ⊢        | ⊢        | ⊢        | -        | ł | $\vdash$ | 91       | -      | $\vdash$ | $\vdash$  | -        | -        | -        | +       | +       | -  | $\vdash$      | 140<br>141 | -        | +             | +        | +             | +             | $\dashv$      | -             | +         | - |
| _     | 41       | +-       | Н             | -        | -        | +        | ⊢        | +-       | ⊢        | ⊢        | ł | $\vdash$ | 91       | -      | Н        | $\vdash$  | -        | $\dashv$ | +        | +       |         | -  | $\vdash$      | 141        | -        | +             | +        | +             | -             | -             | +             | +         | - |
| _     | 43       | $\vdash$ | Н             | H        | Н        | +        | Н        | $\vdash$ | $\vdash$ | $\vdash$ | ł | Н        | 93       | -      | Н        | Н         | -        | $\dashv$ | -        | +       | +       | ┨  | $\vdash$      | 143        | $\dashv$ | +             | +        | +             | +             | $\dashv$      | +             | +         | - |
| _     | 44       | $\vdash$ | Н             | H        | -        | +        | $\vdash$ | +        | $\vdash$ | $\vdash$ | ł | $\vdash$ | 93       | -      | Н        | Н         | $\dashv$ | $\dashv$ | +        | +       | +       | ┨  | $\vdash$      | 144        | $\dashv$ | +             | +        | +             | +             | $\dashv$      | $\dashv$      | +         | - |
|       | 45       | +        | Н             | Н        |          | +        | $\vdash$ | $\vdash$ | $\vdash$ | Н        | ł |          | 95       | -      | Н        | $\vdash$  | $\dashv$ | -        | +        | +       | +       | 1  | $\vdash$      | 145        | $\dashv$ | +             | +        | $\rightarrow$ | +             | $\dashv$      | $\dashv$      | +         | - |
| -     | 46       | +        | Н             | Н        | -        | +        | +        | +        | $\vdash$ | Н        | ł | $\vdash$ | 96       | -      | Н        | $\vdash$  | $\dashv$ | $\dashv$ | +        | +       | +       | 1  | $\vdash$      | 146        | $\dashv$ | +             | +        | +             | +             | $\dashv$      | $\dashv$      | +         | - |
| _     | 47       | +        |               |          |          |          | +        |          |          | $\vdash$ | 1 |          | 97       |        | Н        | $\vdash$  | $\dashv$ | $\dashv$ | +        | +       | +       | 1  |               | 147        | $\dashv$ | +             | +        | +             | +             | $\dashv$      | +             | +         | - |
| _     | 48       | $\vdash$ |               | Н        | $\vdash$ | +        | $\vdash$ |          | Н        | Н        | 1 |          | 98       |        | Н        | $\vdash$  | +        | $\dashv$ | +        | +       | +       | 1  |               | 148        | -        | +             | +        | +             | +             | $\dashv$      | +             | +         | - |
|       | 49       | $\vdash$ |               | Н        | -        | $\vdash$ | -        | $\vdash$ | Н        | Н        | 1 |          | 99       |        | Н        | $\vdash$  | $\dashv$ | _        | $\dashv$ | $^{+}$  | +       | 1  | -             | 149        | $\dashv$ | $\forall$     | 7        | $\rightarrow$ | $\forall$     | $\dashv$      | $\dashv$      | $\pm$     | - |
|       | 50       | $\vdash$ |               |          |          | $\vdash$ | -        |          | т        |          | 1 |          | 100      |        | П        | $\vdash$  | 7        | _        | $\dashv$ | $^{+}$  | $\top$  | 1  |               | 150        | $\neg$   | $\forall$     | 7        | $\neg$        | $\neg$        | _             | _             | $^{+}$    | - |
|       |          |          |               |          |          |          |          |          |          |          |   |          |          |        |          |           |          |          |          |         |         |    |               |            |          |               |          |               |               |               |               |           |   |